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L5
    ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
    2005:638740 CAPLUS Full-text
ΑN
DN
    143:153400
ΤI
    Preparation of new derivatives of 6-{4-[4-(1H-indole-2-sulfonyl)piperazine-
    1-carbonyl]phenyl}pyridazin-3-one for treating a Factor Xa mediated
    disease or condition
IN
    Bratt, Emma; Chen, Yantao; Granberg, Kenneth; Nilsson, Ingemar
PΑ
    Astrazeneca AB, Swed.
SO
    PCT Int. Appl., 38 pp.
    CODEN: PIXXD2
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    WO 2005065688
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                                           WO 2005-SE11
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            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
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AB The title compds. I [R2 = NH2, OR4 or YR5 (wherein R4 = H, alkyl; Y = alkylene; R5 = H, halo, OH, alkoxy, etc.); n = 1-2; R1 = halo, haloalkyl, OH, oxo, NH2, alkylamino or dialkylamino] which possess antithrombotic and anticoagulant properties and are accordingly useful in methods of treatment of humans or animals, were prepared Thus, cyclization of 4-acetylbenzoic acid with glyoxalic acid and with Me hydrazine followed by reacting the resulting 4-(1-methyl-6-oxo-1,6-dihydropyridazin-3-yl)benzoic acid with 5-chloro-2-(piperazin-1-ylsulfonyl)-1H-indole afforded I [R1 = 5-C1; R2 = Me]. The exemplified compds. I gave IC50 of < 10  $\mu$ M against Factor Xa. The invention also relates to processes for the preparation of the compds. I, to pharmaceutical compns. containing them and to their use in the manufacture of medicaments for use in the production of an antithrombotic or anticoagulant effect.

IT 860013-19-0P 860013-20-3P 860013-21-4P 860013-22-5P 860013-23-6P 860013-24-7P 860013-25-8P 860013-26-9P 860013-27-0P

860013-28-1P 860013-29-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 6-{4-[4-(1H-indole-2-sulfonyl)piperazine-1-carbonyl]phenyl}pyridazin-3-ones for treating a Factor Xa mediated disease or condition)

RN 860013-19-0 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-(1,6-dihydro-1-methyl-6-oxo-3-pyridazinyl)benzoyl]- (9CI) (CA INDEX NAME)

RN 860013-20-3 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-[1-[2-(dimethylamino)ethyl]-1,6-dihydro-6-oxo-3-pyridazinyl]benzoyl]- (9CI) (CA INDEX NAME)

RN 860013-21-4 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-[1,6-dihydro-1-[2-(methylamino)ethyl]-6-oxo-3-pyridazinyl]benzoyl]- (9CI) (CA INDEX NAME)

RN 860013-22-5 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-(1-ethyl-1,6-dihydro-6-oxo-3-pyridazinyl)benzoyl]- (9CI) (CA INDEX NAME)

RN 860013-23-6 CAPLUS

CN Piperazine, 1-[4-(1-butyl-1,6-dihydro-6-oxo-3-pyridazinyl)benzoyl]-4-[(5-chloro-1H-indol-2-yl)sulfonyl]- (9CI) (CA INDEX NAME)

RN 860013-24-7 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-[1,6-dihydro-1-(2-hydroxyethyl)-6-oxo-3-pyridazinyl]benzoyl]- (9CI) (CA INDEX NAME)

RN 860013-25-8 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-[1,6-dihydro-6-oxo-1-(2,2,2-trifluoroethyl)-3-pyridazinyl]benzoyl]- (9CI) (CA INDEX NAME)

RN 860013-26-9 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-[1,6-dihydro-1-(2-methoxyethyl)-6-oxo-3-pyridazinyl]benzoyl]- (9CI) (CA INDEX NAME)

RN 860013-27-0 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-[1,6-dihydro-1-[2-(2-methoxyethoxy)ethyl]-6-oxo-3-pyridazinyl]benzoyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

<u>—</u> ОМе

RN 860013-28-1 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-[1-(fluoromethyl)-1,6-dihydro-6-oxo-3-pyridazinyl]benzoyl]- (9CI) (CA INDEX NAME)

RN 860013-29-2 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-[1-(difluoromethyl)-1,6-dihydro-6-oxo-3-pyridazinyl]benzoyl]- (9CI) (CA INDEX NAME)

IT 249292-10-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 6-{4-[4-(1H-indole-2-sulfonyl)piperazine-1-carbonyl]phenyl}pyridazin-3-ones for treating a Factor Xa mediated disease or condition)

RN 249292-10-2 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-(1,6-dihydro-6-oxo-3-pyridazinyl)benzoyl]- (9CI) (CA INDEX NAME)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
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SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

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AN 1999:723030 CAPLUS Full-text

DN 131:322629

TI Preparation of 1-heteroarylsulfonyl-4-heteroarylbenzoylpiperazines and analogs as Factor Xa inhibitors

IN Caulkett, Peter William Rodney; James, Roger; Pearson, Stuart Eric; Slater, Anthony Michael; Walker, Rolf Peter

PA Zeneca Limited, UK

AB RZCOZ1SO2R1 [R = (un)substituted heteroaryl; R1 = (un)substituted 2-indolyl, -2-benzimidazolyl, -2-benzo[b]furanyl, etc.; Z = (un)substituted 1,4-phenylene; Z1 = (un)substituted piperidine-4,1-diyl or -piperazine-1,4-diyl] were prepared Thus, 5-chlorobenzo[b]furan-2-sulfonyl chloride was amidated by piperazine and the product amidated by 4-(4-pyridyl)benzoic acid to give title compound I. Data for biol. activity of I were given.

IT 249292-10-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

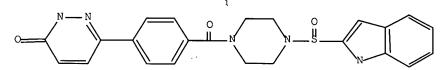
(preparation of 1-heteroarylsulfonyl-4-heteroarylbenzoylpiperazines and analogs as Factor Xa inhibitors)

RN 249292-10-2 CAPLUS

CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[4-(1,6-dihydro-6-oxo-3-pyridazinyl)benzoyl]- (9CI) (CA INDEX NAME)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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Structure attributes must be viewed using STN Express query preparation.

(FILE 'REGISTRY' ENTERED AT 13:37:56 ON 24 SEP 2007)

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L2 QUE L1

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L4 12 S L2 FUL

FILE 'CAPLUS' ENTERED AT 13:39:37 ON 24 SEP 2007

L5 2 S L4

FILE 'MARPAT' ENTERED AT 13:40:01 ON 24 SEP 2007

L6 0 S L4

L7 1 S L4 FUL

L8 0 S L7 NOT L5

COST IN U.S. DOLLARS

SINCE FILE TOTAL
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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